Dear VIZIO Customer,

Congratulations on your new VIZIO E190MV or E220MV television purchase. To get the most out of your new VIZIO HDTV, read these instructions before making any adjustments, and retain them for future reference. We hope you will experience many years of enjoyment from your new VIZIO HDTV High Definition Television.

For assistance, call **877-MYVIZIO** (877-698-4946) or e-mail us at www.VIZIO.com.

To purchase or inquire about accessories and installation services for your VIZIO HDTV, visit our website at www.VIZIO.com or call toll free at **888-849-4623.**

We recommend you register your VIZIO HDTV either at our website www.VIZIO.com or fill out and mail your registration card. For peace of mind and to protect your investment beyond the standard warranty, VIZIO offers on-site extended warranty service plans. These plans give additional coverage during the standard warranty period. Visit our website or call us to purchase a plan.

Write down the serial number located on the back of your HDTV for easy reference when obtaining warranty support:

Serial #: _____ Purchase Date _____

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HDMI logo and "High Definition Multimedia Interface" are registered trademarks of HDMI Licensing LLC.

Manufactured under license from Dolby Laboratories.

Dolby and the double-D symbol are trademarks of Dolby Laboratories.

and *are trademarks of SRS Labs, Inc.*
TruSurround HD and TruVolume technologies are incorporated under license from SRS Labs, Inc.

This product qualifies for ENERGY STAR in the "factory default (Home Use)" setting and this is the setting in which power savings will be achieved. Changing the factory default picture setting or enabling other features will increase power consumption that could exceed the limits necessary to qualify for Energy Star rating.

THE TRADEMARKS SHOWN HEREIN ARE THE PROPERTY OF THEIR RESPECTIVE OWNERS; IMAGES USED ARE FOR ILLUSTRATION PURPOSES ONLY. BRAVO, VIZIO AND THE V LOGO AND WHERE VISION MEETS VALUE AND OTHER VIZIO TRADEMARKS ARE THE INTELLECTUAL PROPERTY OF VIZIO INC. PRODUCT SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE OR OBLIGATION. © 2008 VIZIO INC. ALL RIGHTS RESERVED.

Important Safety Instructions

Your HDTV is designed and manufactured to operate within defined design limits. Misuse may result in electric shock or fire. To prevent your HDTV from being damaged, the following instructions should be observed for the installation, use, and maintenance of your HDTV. Read the following safety instructions before operating your HDTV. Keep these instructions in a safe place for future reference.

- To reduce the risk of electric shock or component damage, switch off the power before connecting other components to your HDTV.
- Unplug the AC/DC power adapter before cleaning your HDTV. A damp cloth is sufficient for cleaning your HDTV. Do not use a liquid or a spray cleaner for cleaning your HDTV. Do not use abrasive cleaners.
- Always use the accessories recommended by the manufacturer to insure compatibility.
- When moving your HDTV from an area of low temperature to an area of high temperature, condensation may form in the housing. Wait before turning on your HDTV to avoid causing fire, electric shock, or component damage.
- Use only with the cart, stand, tripod, bracket, or table specified by manufacturer or sold with your HDTV. When a cart is used, use caution when moving the cart/HDTV combination to avoid injury from tip-over. Do not place your HDTV on an unstable cart, stand, or table. If your HDTV falls, it can injure a person and cause serious damage to your HDTV. Use only a cart or stand recommended by the manufacturer or sold with your HDTV.

- A distance of at least three feet should be maintained between your HDTV and any heat source, such as a radiator, heater, oven, amplifier etc. Do not install your HDTV close to smoke. Operating your HDTV close to smoke or moisture may cause fire or electric shock.
- Slots and openings in the back and bottom of the cabinet are provided for ventilation. To ensure reliable operation of your HDTV and to protect it from overheating, be sure these openings are not blocked or covered. Do not place your HDTV in a bookcase or cabinet unless proper ventilation is provided.
- Never push any object into the slots and openings on your HDTV cabinet. Do not place any objects on the top of your HDTV. Doing so could short circuit parts causing a fire or electric shock. Never spill liquids on your HDTV.
- Your HDTV should be operated only from the type of power source indicated on the label. If you are not sure of the type of power supplied to your home, consult your dealer or local power company.
- Do not apply pressure or throw objects at your HDTV. This may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.
- The power cord must be replaced when using different voltage than the voltage specified. For more information, contact your dealer.
- Your HDTV is equipped with an **AC/DC power adapter**. This plug will fit only into a grounded power outlet. This is a safety feature. If your outlet does not accommodate the three-pronged, have an electrician install the correct outlet, or use an adapter to ground your HDTV safely. **Do not defeat the safety purpose of the grounded plug.**
- When connected to a power outlet, power is always flowing into your HDTV. To totally disconnect power, unplug the power cord.

- The lightning flash with arrowhead symbol within an equilateral triangle is intended to alert the user to the presence of un-isolated, dangerous voltage within the inside of your HDTV that may be of sufficient magnitude to constitute a risk of electric shock to persons.

- The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and servicing instructions in

the literature accompanying your HDTV.

- Do not overload power strips and extension cords. Overloading can result in fire or electric shock.
- The wall socket should be installed near your HDTV and easily accessible.
- Only power of the marked voltage can be used for your HDTV. Any other voltage than the specified voltage may cause fire or electric shock
- Do not touch the power cord during lightning. To avoid electric shock, avoid handling the power cord during electrical storms.
- Unplug your HDTV during a lightning storm or when it will not be used for long period of time. This will protect your HDTV from damage due to power surges.
- Do not attempt to repair or service your HDTV yourself. Opening or removing the back cover may expose you to high voltages, electric shock, and other hazards. If repair is required, contact your dealer and refer all servicing to qualified service personnel.
- Keep your HDTV away from moisture. Do not expose your HDTV to rain or moisture. If water penetrates into your HDTV, unplug the power cord and contact your dealer. Continuous use in this case may result in fire or electric shock.
- Do not use your HDTV if any abnormality occurs. If any smoke or odor becomes apparent, unplug the power cord and contact your dealer immediately. Do not try to repair your HDTV yourself.
- Avoid using dropped or damaged appliances. If your HDTV is dropped and the housing is damaged, the internal components may function abnormally. Unplug the power cord immediately and contact your dealer for repair. Continued use of your HDTV may cause fire or electric shock.
- Do not install your HDTV in an area with heavy dust or high humidity. Operating your HDTV in environments with heavy dust or high humidity may cause fire or electric shock.
- Follow instructions for moving your HDTV. Ensure that the power cord and any other cables are unplugged before moving your HDTV.
- When unplugging your HDTV, hold the AC/DC power adapter, not the cord. Pulling on the power cord may damage the wires inside the cord and cause fire or electric shock. When your HDTV will not be used for an extended period of time, unplug the power cord.
- To reduce risk of electric shock, do not touch the connector with wet hands.
- Insert batteries in accordance with instructions. Incorrect polarities may cause the batteries to leak which can damage the remote control or injure the operator.
- If any of the following occurs, contact the dealer:
    - The power cord fails or frays.
    - Liquid sprays or any object drops into your HDTV.
    - Your HDTV is exposed to rain or other moisture.
    - Your HDTV is dropped or damaged in any way.
    - The performance of your HDTV changes substantially.

Television Antenna Connection Protection

External Television Antenna Grounding

If an outside antenna/satellite dish or cable system is to be connected to the TV, make sure that the antenna or cable system is electrically grounded to provide some protection against voltage surges and static charges.

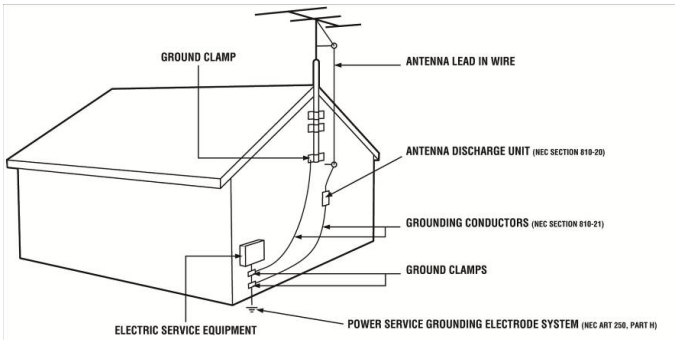
Article 810 of the National Electrical Code, ANSI/NFPSA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of the grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements of the grounding electrode.

Lightning Protection

For added protection of the TV during a lightning storm or when it is left unattended or unused for long periods of time, unplug the TV from the wall outlet and disconnect the antenna or cable system.

Power Lines

Do not locate the antenna near overhead light or power circuits, or where it could fall into such power lines or circuits.



Remember, the screen of the coaxial cable is intended to be connected to earth in the building installation.

Advisory of the DTV Transition

The nationwide switch to digital television broadcasting will be complete on June 12, 2009, but your local television stations may switch sooner. After the switch, analog-only television sets that receive TV programming through an antenna will need a converter box to continue to receive over-the-air TV. Watch your local stations to find out when they will turn off their analog signal and switch to digital-only broadcasting. Analog-only TVs should continue to work as before to receive low power, Class A or translator television stations and with cable and satellite TV services, gaming consoles, VCRs, DVD players, and similar products.

For additional information, contact the parties listed below, as appropriate:

FCC (US Federal Communications Commission)

http://www.fcc.gov/

Phone: 1-888-CALL-FCC (1-888-225-5322)

TTY: 1-888-TELL-FCC (1-888-835-5322)

Fax: 1-866-418-0232

E-mail: fccinfo@fcc.gov

NTIA (National Telecommunications and Information Administration)

http://www.ntia.doc.gov/ 1-888-DTV-2009

Listings of US Television Stations: http://www.high-techproductions.com/usTVstations.htm

Note: Your HDTV comes with a built-in tuner capable of processing digital broadcasts. No extra converter box is needed.

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Opening the Package

Your HDTV and its accompanying accessories are carefully packed in a cardboard carton that has been designed to protect it from transportation damage. After you have opened the carton, make sure that your HDTV is in good condition and that all of the contents are included.

The screen can be easily scratched or broken, so handle your HDTV gently and never place your HDTV with the screen facing downwards on a surface without protective padding.

IMPORTANT: Save the carton and packing material for future shipping.

Package Contents

- VIZIO E190MV or E220MV
- Stand with thumb screw
- VIZIO remote control VR9
- AAA batteries for the remote control (2)
- Power adapter
- *Quick Setup Guide*
- Registration Card

HDTV Accessories and Services

Additional certified accessories for your HDTV are sold separately, including:

- Wall mounts
- High Definition cables
- Extra or replacement remote controls
- Sound Bars
- Blu-ray DVD Players

VIZIO also offers installation services and extended warranty services for your HDTV.

To purchase or inquire about additional accessories and services for your VIZIO HDTV, visit our website at www.VIZIO.com or call us toll free at **877-MYVIZIO** (877-698-4946).

Caution: Do not apply pressure or throw objects at your HDTV (including game controllers).

This may compromise the integrity of the display. The manufacturer's warranty does not cover user abuse or improper installations.

Chapter 1 Setting Up Your HDTV

- Read this user manual carefully before installing your HDTV.
- The power consumption of your HDTV is about 37W (E190MV); 41W (E220MV) average. Use the included power adapter. When an extension cord is required, use one with the correct power rating. The AC/DC power adapter must be grounded and the grounding feature must not be compromised.
- Install your HDTV on a flat surface to avoid tipping.
- For proper ventilation, you must allow a 1" space between the back of your HDTV and the wall.
- Avoid installing your HDTV in places with high humidity, dust, or smoke so you do not shorten the service life of the electronic components.
- Install your HDTV in a level, landscape orientation, with the VIZIO logo at the bottom to prevent poor ventilation and excessive component damage.
- If you want to mount your HDTV on the wall, see below for additional information.
- Read this user manual carefully before installing your HDTV.

VIZIO offers professional installation services including home networking. Contact VIZIO for more information on these services at **877-MYVIZIO** (877-698-4946) or www.VIZIO.com.

Attaching the TV Stand

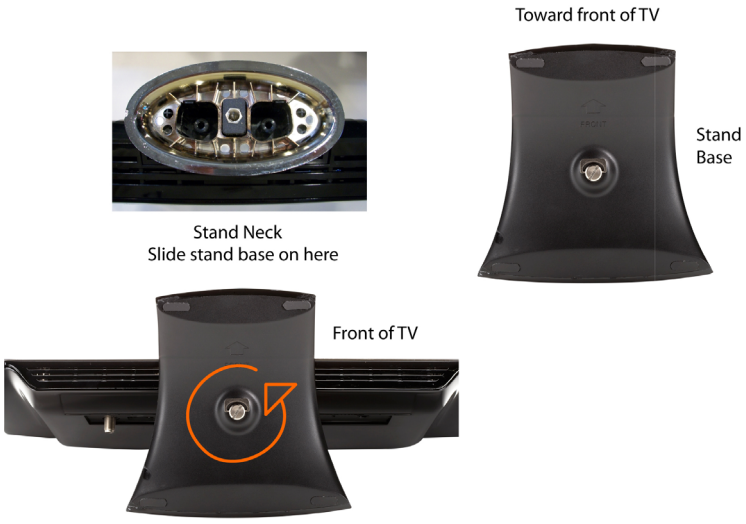
Unpack the TV and stand base:

1. Remove the remote control, batteries, base, and power adapter.
2. Remove the TV from the box and lay it face down on a clean, flat surface.

Note: Make sure that the surface is free of debris to prevent the TV screen from getting scratched.

Attach the TV stand base:

1. Push the stand base onto the stand neck (already connected to TV) making sure the arrow on the base points toward the front of the TV.
2. On the bottom of the base, tighten the wing screw. Move the TV into an upright position.



Wall Mounting Your HDTV

Your HDTV can be mounted on the wall for viewing. If you choose to mount your HDTV on the wall, follow the instructions below.

1. Write down the serial number located on the back of your HDTV in the space provided on page 1 to have it handy if you need to call for support.

2. Remove the stand base and neck:
   a. Disconnect the cables from your HDTV.
   b. Place your HDTV face down on a soft, flat surface to prevent damage to the screen.
   c. Flip the base 90 degrees.In this manner, the stand neck will be out of view after the base is removed.
   d. Loosen the wing screw and remove the stand base.

3. Mount your HDTV on the wall:
   a. Attach your HDTV to a wall mount (sold separately) using the mounting holes in the back panel of your HDTV (see illustration at the right).
   b. Read the instructions that came with your specific wall mount to properly hang your HDTV.

Wall Mounting Specifications	
Screw Size	• M4 x 10
Screw Length	• 10.0 mm
Screw Pitch	• 0.7 mm
Hole Pattern	• VESA standard 100 x 100 mm spacing

Chapter 2 Basic Controls and Connections

Front Panel

Your HDTV TV features touch-sensitive buttons that light when active. The proximity sensor detects you, and as your hand gets closer to the surface, the intensity of the LEDs increase.

Remote Control Sensor—Point the remote control directly at this window on the lower right corner of your HDTV for the best response to the remote signal.

1. POWER ( )—Turn your HDTV on by pressing the button once. Press the button again to turn your HDTV off.

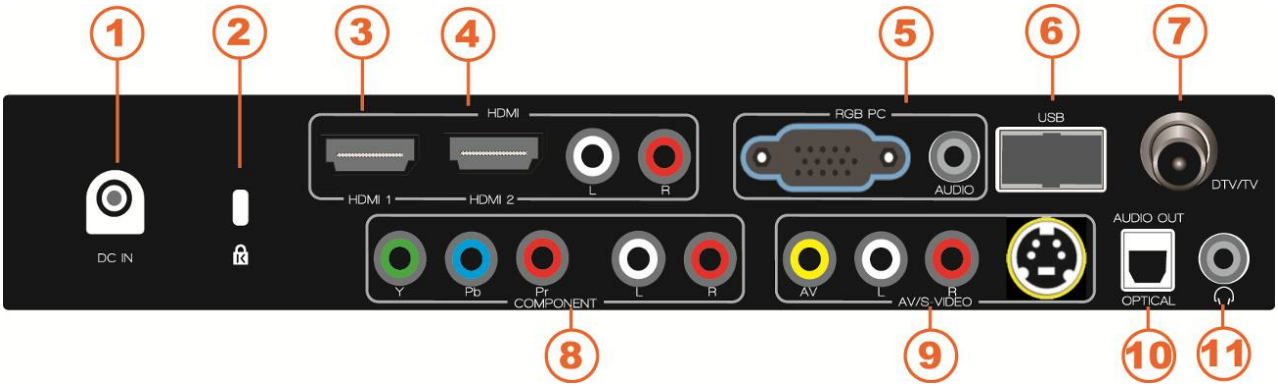
2. MENU—Press to launch the on-screen menu. If a sub-menu is active, this button will proceed to the next level.

3. CH ▲/▼—Press to change the channels up or down. While the menu is active, these buttons function as up and down controls.

4. VOL ▲/▼—Press to increase or decrease the speaker volume. While the menu is active, these buttons function as left and right controls.

5. INPUT (SELECT)—Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV (Composite), COMP (Component), HDMI-1, HDMI-2, and RGB (VGA). After you have stepped through the entire sequence, you will return to the beginning. If a sub-menu is active, pressing this button will return to the previous menu level. Additionally, when the menu is active, this button confirms the menu function to be adjusted.

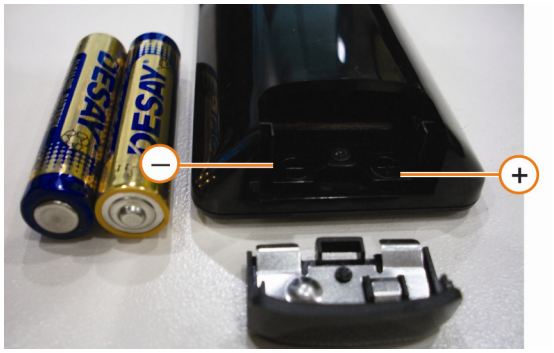
Rear Panel Connections



1. **DC IN—**Connect the included AC/DC power supply here. Connect the other end to a wall outlet.
2. **Kensington Security Slot—**Insert a Kensington lock and attach your HDTV to a permanent object to prevent theft.
3. **HDMI 1—**Connect digital video devices such as a DVD player or Set-Top Box through these all digital connectors.
4. **HDMI 2 with L/R Audio—**Connect another digital video device such as a DVD player or Set-Top Box through this all digital connector. For users who want to connect to a DVI enabled device, use a DVI-HDMI cable and connect the analog audio output of the device to the **L / R AUDIO** here. Your VIZIO Certified HDMI-DVI cables are available for purchase from www.VIZIO.com or by calling **877-MYVIZIO** (877-698-4946).
5. **RGB PC—** Connect the video and audio from a computer here. Connect a 1/8” mini plug stereo connector from the computer to the TV if you want the sound to come from the HDTV speakers.
6. **USB PORT—**Insert a FAT/FAT32 formatted USB drive to view pictures. This port is also used for service.
7. **DTV/TV—** Connect to an antenna or digital cable source. For digital TV stations in your area visit www.antennaweb.org. For cable and satellite Set-Top boxes, we recommend that you use a HDMI or component cable connection for high definition image quality.
8. **COMPONENT (Y Pb/Cb Pr/Cr with L/R Audio)—**Connect component video devices such as a DVD Player or set top box here.
9. **AV/S-VIDEO—** Connect composite or S-Video video devices, such as a VCR or game console. Use the white and red connectors to connect the external audio from the same source.
10. **AUDIO OUT—**(OPTICAL) When digital TV is selected for viewing, the audio associated with the programming will be available on the SPDIF Optical connector for connection to a VIZIO Sound Bar or your Home Theater system.
11. **Headphones—**Connect your personal headphones here.

Chapter 3 VIZIO Remote Control

Installing the Batteries



1. Remove the battery cover.
2. Insert two AAA batteries into the remote control. Make sure that you match the (+) and (-) symbols on the batteries with the (+) and (-) symbols inside the battery compartment.
3. Replace the battery cover.

Precautionary Tips for Inserting the Batteries:

- Only use Alkaline AAA batteries.
- Do not mix new and old batteries. This may result in cracking or leakage that may cause a fire or lead to personal injury.
- Inserting the batteries incorrectly may also result in cracking or leakage that may cause a fire or lead to personal injury.
- Dispose of batteries according to local hazardous waste regulations.
- Keep the batteries away from children and pets.

Remote Control Range

- Point the remote control directly at this sensor for the best response to the remote signal.
- Do not place any obstacles between the remote control and the remote control sensor.
- The effective range of the remote control is approximately 22 feet (7 meters) from the front of the remote control sensor, 30° to the left and right, 20° up and down.

VIZIO Remote Control Precautions

- The remote control should be kept dry and away from heat sources. Avoid humidity.
- If the TV responds erratically to the remote control or does not respond at all, check the batteries. If the batteries are low or exhausted, replace them with fresh batteries.
- When not using the remote control for a long period of time, remove the batteries.
- Do not take the batteries apart, heat them, or throw them into a fire.
- Do not subject the remote control to undue physical stress, such as striking or dropping it.
- Do not attempt to clean the remote control with a volatile solvent. Wipe it with a clean, damp cloth.

Remote Control Buttons

INFO—Press to display program information.

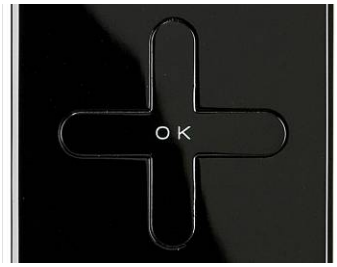
POWER ( )—Press to turn the TV on from the Standby mode. Press it again to return to the Standby mode.

TV—Press to select the TV input.

AV—Press to select the AV (either Composite or S-Video) input.

COMP—Press to select the Component input.

HDMI—Press to select the HDMI input. Press repeatedly to cycle between both HDMI inputs.



Up, Down, Left or Right navigation buttons — Press to navigate open menus, adjust other TV settings such as Brightness and Contrast, or turn menu options On and Off.

OK— Press to select an option in the menu.

VOL ▲/▼—Press to turn the volume up or down.

CH ▲/▼—Press to change the channels up or down.

MUTE—Press to turn the sound on and off.

LAST— Press to recall the previously viewed channel. When the Menu is active, press repeatedly to go to the previous level or out of the On Screen Menu completely.

Number Button Pad—Press to select a channel or enter a password.

INPUT—Press to cycle through the various devices connected to your TV (called Inputs). The inputs cycle in the following sequence: TV, AV (Composite), COMP (Component), HDMI-1, HDMI-2, and RGB (VGA). After you have stepped through the entire sequence, you will return to the beginning.

- (DASH) —Press to insert a dash between the main and sub-channels. For example, channel 28-2 would be selected by the button sequence 2, 8, DASH, 2.

EXIT— Press to exit from open menus.

Play (►)—Press to start playing the recorded programming when in *Pause Live TV mode.*

Stop (■)—Press to take you out of *Pause Live TV mode* and back to live TV.

Fast Forward (►►)—Press to skip forward in 15 second increments. You can also press the right navigation key. Also press this button to navigate in open menus.

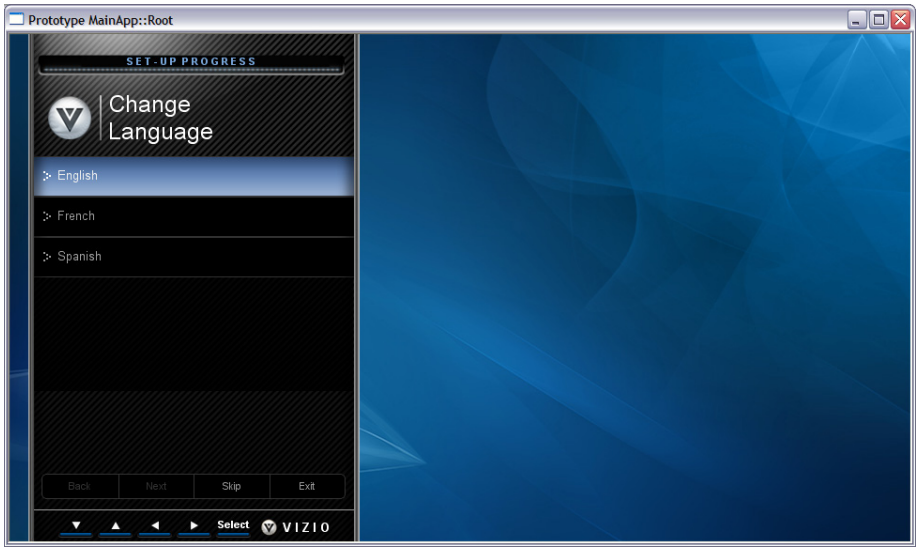
Pause (II)—Press to pause live TV.

Fast Reverse (◄◄)—Press to skip backward in 15 second increments. You can also press the left navigation key. Also press this button to navigate in open menus.

Chapter 4 Getting Started

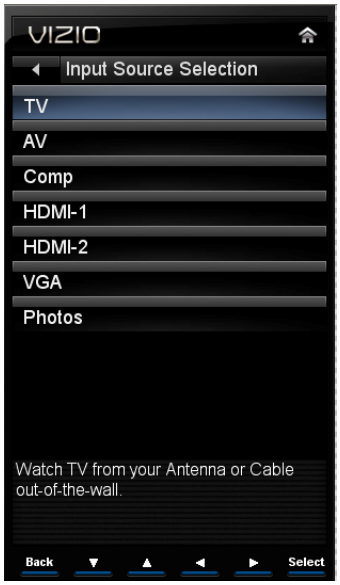
Your HDTV has a built-in setup App that runs when you turn on your TV for the first time. Follow the on-screen directions to easily setup your new HDTV.

1. Insert the batteries into the remote control.
2. Connect the AC/DC power adapter to the power connector on the back of your HDTV, and then plug into a wall outlet.
3. Connect your devices to your HDTV (see Chapter 2 for detailed steps).
4. Turn on your TV. The Setup App will automatically play and guide your thru the initial setup of your HDTV. Use the Arrow and OK buttons to navigate through the setup App. During the setup process you will:
    - Choose your Menu language
    - Set the TV to Home Mode for the best picture and most efficient energy usage.
    - Set your Time Zone and Daylight Savings preferences
    - Add your TV channels (unless you have a Cable/Satellite Set-Top Box)



Chapter 5 Using your HDTV for the first time

Select Input Source



Select the input source for your HDTV by pressing the **INPUT** button on the remote control or the front of your TV. Pressing this button will cycle you through the following options: TV, AV, Comp, HDMI-1, HDMI-2, VGA, and Photos.

Turn on your device and you will see a picture on your HDTV. If there is no picture, make sure you have selected the correct input on your HDTV.

Note: If the selected device is RF connected, your HDTV needs to be in **TV** mode and on either channel 3 or channel 4 matching the channel which has been selected on the back of the VCR, Cable Box, External TV Tuner or Satellite Receiver. Refer to Owner or User's Manual of such equipment for details.

Watching a TV Program

Before you start watching TV, make sure that any cable, satellite or off-air antenna connections are secure. Also, verify that the power adapter is plugged into a correctly grounded electrical outlet or surge protector.

1. Press the power button on the remote control.

2. Select the input to which your device is connected that provides TV programming (i.e. TV, HDMI, COMP).

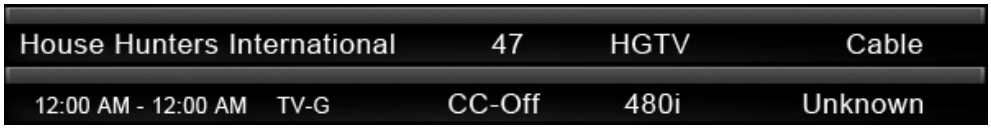
Note: You should be able to see a picture. If you do not, make sure that all of your HDTV connections are secure and you have selected the correct video input source. Each press of the **INPUT** button on the remote control will cycle through the available inputs. Press the button until the input associated with the device you want to view is shown.

3. When using the TV input, press the channel buttons on the remote control or the CH ▲ or ▼ buttons to change the channel. The Channel buttons and on the remote, control will not work if you are watching a program using HDMI, Component, or AV (S-Video or Composite) inputs.

Viewing Digital TV Program Information

INFO Button

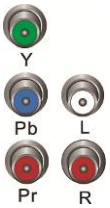
When the channel is changed or when you press the **INFO** button, an information header is shown over the picture for a few seconds. Each press of the **INFO** button will display more information about the program:



Chapter 6 Connecting Equipment

Which Video Connection Should I Use ?

You have six options for connecting your video equipment box to your HDTV from a basic connection to the most advanced for digital displays. Based on your Home Theater configuration, you can decide which option is the right one for you.

Connection Quality (type)	Connector	Description
Best (digital)		**HDMI** delivers the best image quality of any of the cable types available and it's all done over one cable. You get a great picture and cut down on your cable clutter. HDMI provides digital quality and amazing sound so if your TV has HDMI, this is the connection type you should be using.
Best (digital) - - - - - - - - - - - Compatible (analog)		Connect your **antenna** or **coaxial** cable to watch TV programming. This cable usually comes from your cable box or right out of the wall.
Best (analog)		The **RGB (VGA)** port allows you to connect your computer so you can use the TV as your monitor.
Better (analog)		**Component** consists of three cables for transmitting video and two cables for transmitting audio: one red and one white. Component video provides a sharper image than Composite video and should be used instead of composite when possible. However, because it is still an analog connection, it won't provide the high-quality video and audio that HDMI can produce.
Compatible (analog)		Using a unique connector, **S-Video** provides a sharper image than Composite video. However, S-Video is generally not ideal for high-definition video signals. Use HDMI or Component for high-definition signals. **Composite** consists of one yellow cable for transmitting video and two cables for transmitting audio: one red and one white. It is capable of transmitting stereo sound and standard definition video (480i). While it provides a good image, it has lower image quality than HDMI or Component. So try to use one of those connections first.

Note: To maintain the display quality, use a VIZIO certified HDMI cable. This cable is available in 6, 8, and 12 foot lengths. Visit www.VIZIO.com or call 1-888-VIZIOCE (1-888-849-4623) for details.

Connecting Your Cable or Satellite Box

Using HDMI (Best)

Cable and Satellite Boxes that have a HDMI digital interface should be connected using HDMI for optimal results. To maintain image quality, use a VIZIO certified HDMI cable. This cable is available in 6, 15, and 30 foot lengths. See www.VIZIO.com or call **877-MYVIZIO** (877-698-4946) for details.

1. Turn off your HDTV and Cable/Satellite Box.
2. Connect an HDMI cable to the HDMI output of your HDTV Set-Top Box and the other end to the **HDMI 1** or **HDMI 2** input on your HDTV.
3. Turn on the power to your HDTV and your Cable/Satellite Box.
4. Select **HDMI-1** or **HDMI-2** using the **INPUT** button on the remote control, or directly by pressing the **HDMI** button on the remote control.

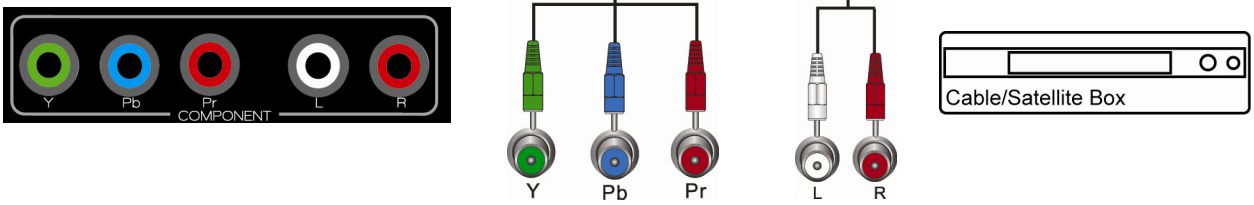
Note:

- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your Cable/Satellite Set-Top Box user manual for more information about the video output requirements of the product or consult your cable or satellite operator.

HDMI Connections for Cable or Satellite Boxes with DVI

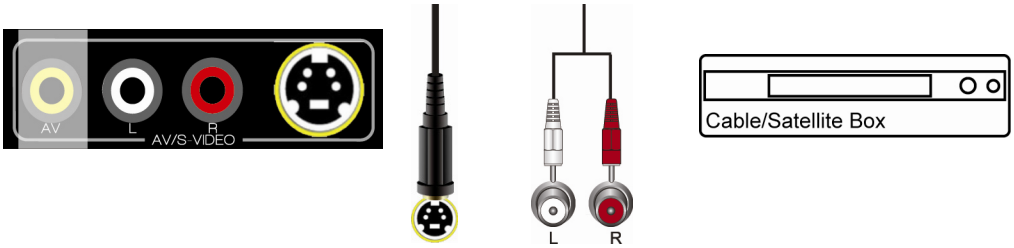
1. Turn off the power to your HDTV and HDTV Set-Top Box.
2. Using a HDMI-DVI cable, connect the DVI end to your HDTV Set-Top Box and the HDMI end to the **HDMI 2** input on your HDTV.
3. Using an audio cable, connect the cable to the audio output connectors associated with the DVI output on your HDTV Set-Top Box and connect the other end to the audio connectors associated with the HDMI input on your HDTV.
4. Turn on the power to your HDTV and your Cable/Satellite Box.
5. Select **HDMI-2** using the **INPUT** button on the remote control, or directly by pressing the **HDMI** button on the remote control.

Using Component Video (Better)



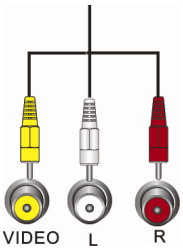
1. Turn off your HDTV and Cable/Satellite Box.
2. Connect the component cables (green, blue, and red) from your Cable/Satellite Box to the **COMPONENT** jacks on your HDTV.
3. Connect the audio cables (white and red) from your Cable/Satellite Box to the **COMPONENT L** and **R Audio** jacks on your HDTV.
4. Turn on your HDTV and Cable/Satellite Box.
5. Select **Comp** using the **INPUT** button on the remote control, or directly by pressing the **COMP** button on the remote control.

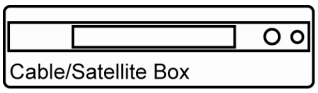
Using S-Video (Better)



1. Turn off your HDTV and Cable/Satellite Box.
2. Connect the S-VIDEO cable from your Cable/Satellite Box to the **S-VIDEO** jack on your HDTV.
3. Connect the audio cables (white and red) on your Cable/Satellite Box to the corresponding **L** and **R AUDIO** jacks on your HDTV.
4. Turn on your HDTV and Cable/Satellite Box.
5. Select **AV** using the **INPUT** button on the remote control, or directly by pressing the **AV** button on the remote control.

Using Composite Video (Compatible)





1. Turn off your HDTV and Cable/Satellite Box.
2. Connect the video cable (yellow) from your Cable/Satellite Box to the **AV** jack (yellow) on your HDTV.
3. Connect the audio cables (white and red) from your Cable/Satellite Box to the corresponding **L** and **R AUDIO** jacks on your HDTV.
4. Turn on your HDTV and Cable/Satellite Box.
5. Select **AV** using the **INPUT** button on the remote control, or directly by pressing the **AV** button on the remote control.

Using Coaxial (Antenna) (Compatible)

1. Turn off the power to your HDTV.
2. Connect the coaxial (RF) connector from your Cable Set-Top Box or Satellite Set Top Box to the **DTV/TV** connector on your HDTV.
3. Turn on the power to your HDTV.
4. Select **TV** using the INPUT button on the remote control, or directly by pressing the TV button on the remote control.
5. Perform an Auto Channel scan. See *Adjusting Your HDTV/TV Settings* for more information.

Connecting Your DVD Player

Using HDMI (Best)

DVD players that have a HDMI digital interface should be connected using HDMI for optimal results. To maintain image quality, use a VIZIO certified HDMI cable. This cable is available in 6, 15, and 30 foot lengths. See www.VIZIO.com or call **877-MYVIZIO** (877-698-4946) for details.

1. Turn off your HDTV and DVD player.
2. Connect a HDMI cable to the HDMI output of your DVD player and the other end to the **HDMI 1** or **HDMI 2** input on your HDTV.
3. Turn on the power to your HDTV and your DVD player.
4. Select **HDMI-1** or **HDMI-2** using the **INPUT** button on the remote control, or directly by pressing the **HDMI** button on the remote control.

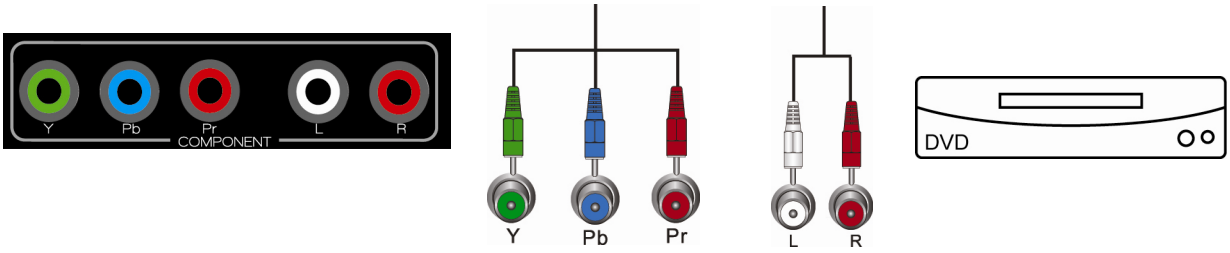
Note:

- The HDMI input on your HDTV supports High-bandwidth Digital Content Protection (HDCP). HDCP encrypts the transmission between the video source and the digital display for added security and protection.
- Refer to your DVD player user manual for more information about the video output requirements.

HDMI Connections for DVD Players with DVI

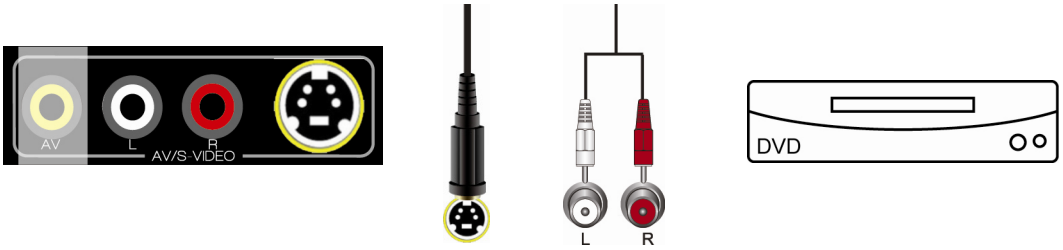
1. Turn off your HDTV and DVD player.
2. Using a HDMI-DVI cable, connect the DVI end to your DVD player and the HDMI end to the **HDMI 2** Input on your HDTV.
3. Connect the audio cables (white and red) from the DVI audio output jacks on the DVD player to the adjacent **HDMI 2 L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and your DVD player.
5. Select **HDMI-2** using the **INPUT** button on the remote control, or directly by pressing the **HDMI** button on the remote control.

Using Component Video (Better)



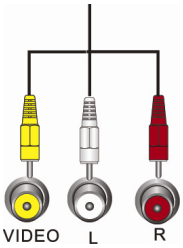
1. Turn off the power to your HDTV and DVD player.
2. Connect the component cable (green, blue, and red) from your DVD player to the **COMPONENT** jacks on your HDTV.
3. Connect the audio cables (white and red) from your DVD player to the **COMPONENT L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and DVD player.
5. Select **Comp** using the **INPUT** button on the remote control, or directly by pressing the **COMP** button on the remote control.

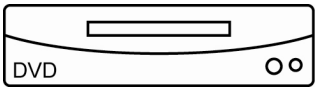
Using S-Video (Better)



1. Turn off the power to your HDTV and DVD player.
2. Connect the S-VIDEO cable from your DVD player to the **S-VIDEO** jack on your HDTV.
3. Connect the audio cables (white and red) on your DVD player to the corresponding **L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and DVD player.
5. Select **AV** using the **INPUT** button on the remote control, or directly by pressing the **AV** button on the remote control.

Using Composite (AV) Video (Compatible)





1. Turn off the power to your HDTV and DVD player.
2. Connect the video cable (yellow) from your DVD player to the **AV/S-VIDEO** jack on your HDTV.
3. Connect the audio cables (white and red) on your DVD player to the **AV/S-VIDEO L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and DVD Player.
5. Select **AV** using the **INPUT** button on the remote control, or directly by pressing the **AV** button on the remote control.

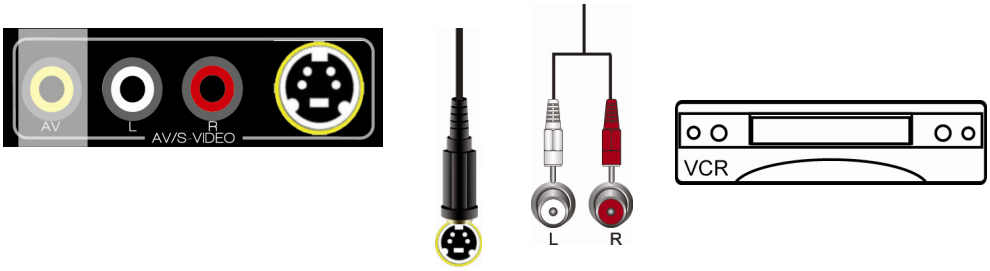
Connecting Coaxial (RF)

Using Your Antenna or Digital Cable for Standard TV or Digital TV

1. Turn off the power to your HDTV.
2. Connect the coaxial (RF) connector from your antenna or cable to the **DTV/TV** connector on your HDTV.
3. Turn on the power to your HDTV.
4. Select **TV** using the **INPUT** button on the remote control, or directly by pressing the **TV** button on the remote control.
5. Perform an Auto Channel scan. See Adjusting Your HDTV/TV Settings for more information.

Connecting Your VCR or Video Camera

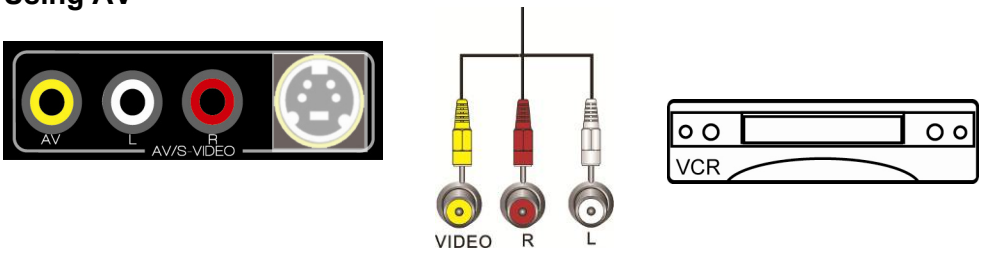
Using S-VIDEO



1. Turn off the power to your HDTV and VCR or Video Camera.
2. Connect the S-VIDEO cable from your VCR or video camera to the **S-VIDEO** jack on your HDTV.
3. Connect the audio cables on your VCR or video camera to the corresponding **L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and VCR or video camera.
5. Select **AV** using the **INPUT** button on the remote control, or directly by pressing the **AV** button on the remote control.

Note: Refer to your VCR or Video Camera user manual for more information about the video output requirements of the product.

Using AV



1. Turn off the power to your HDTV and VCR or Video Camera.
2. Connect the yellow AV cable from your VCR or video camera to the **AV** jack on your HDTV.
3. Connect the audio cables on your VCR or video camera to the corresponding **L** and **R AUDIO** jacks on your HDTV.
4. Turn on the power to your HDTV and VCR or Video Camera.
5. Select **AV** using the **INPUT** button on the remote control or side of the TV.

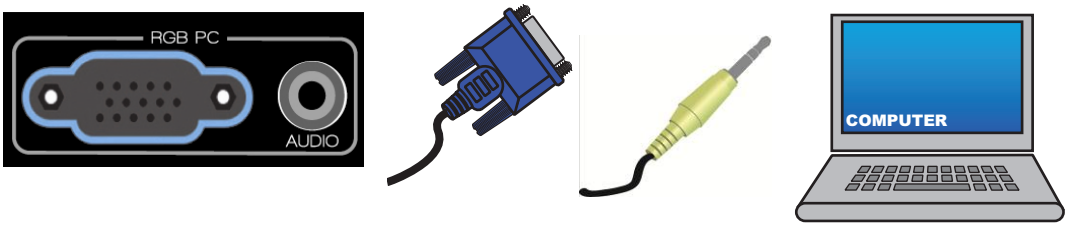
Connecting a Home Theater System

If your sound system has a SPDIF (optical) digital audio input you can connect it to the **OPTICAL** digital audio out on the back of your HDTV. This is active when receiving audio with the content being viewed no matter which input is being used.

1. Connect one end of the optical cable to the optical connection on the Home Theater and the other end to the **OPTICAL** jack on your HDTV.
2. Turn on the power to your HDTV and Home Theater.

Change the input on your Home Theater to optical. See your Home Theater user manual for more information.

Connecting a Computer



1. Set computer to a resolution supported by your HDTV. If your computer supports it, we recommend 1360 x 1080 (E190MV) or 1920 x 1080 (E220MV). *(See Preset PC Resolutions.)*
2. Turn off the power to your HDTV and Computer.
3. Connect the VGA cable from your computer to the **RGB PC** jack on your HDTV.
4. Connect the 1/8-inch audio cable from your computer to the RGB PC **Audio** jack on your HDTV. This step is optional and only needed to transmit audio from the computer through the TV.
5. Turn on the power to your HDTV and computer.
6. Select **RGB** using the **INPUT** button on the remote control or side of your HDTV.

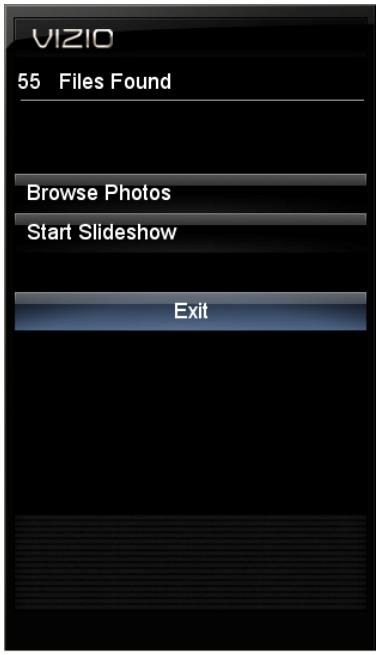
Note: Refer to your PC computer user manual for more information about the video output requirements.

Chapter 7 Viewing pictures

Connect a USB flash drive to the USB port on your HDTV to view photos.

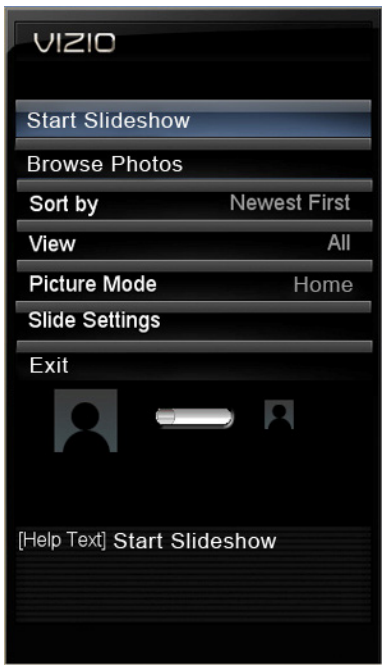
- USB drives that are USB 2.0 and FAT or FAT32 are supported. The USB Port does not support external hard drives or USB hubs.
- If your USB drive is oversized and does not physically fit in the USB port, use a USB extension cable. Connect one end of the cable to your USB drive and the other end to the USB port.
- Supported file extensions include .jpg and .jpeg.

Note: Even the supported format files listed above may or may not play properly or completely, depending on the USB device, bit rate stream, and other content characteristics, as well as other factors.



Viewing Photos

1. Turn on your HDTV.
2. Insert a USB device with photos into the USB port on your HDTV. A screen will appear listing the number of files found on your USB device.
3. Select **Start Slideshow** or **Browse Photos.**
    a. In **Slideshow Mode** the pictures found automatically play.
        i. Press Left or Right Navigation buttons to manually go to the next or previous picture.
        ii. Press **OK** to open the *Modify Photo* menu. There you can zoom in and out, pan the photo left/right/up/down, rotate the photo, see information about the photo, or remove it from the slideshow.
        iii. Press ■ to stop the slideshow. The *Photo menu* opens.
    b. In **Browse Photos** mode, the *Photo menu* opens giving your more menu options.
        i. Press Up or Down Navigation buttons to highlight an option and then press **OK** to select it. In some cases, a sub-menu will be displayed.
        ii. Press **LAST** to go back to a previous screen.
4. To exit from viewing photos, press ■ and then press Up or Down Navigation buttons to select **EXIT**.



NOTE: No Thumbnail Preview will be displayed if the picture file does not contain EXIF metadata from a camera as the source. In the Modify Photo menu, the image must first be zoomed in before panning function is available.

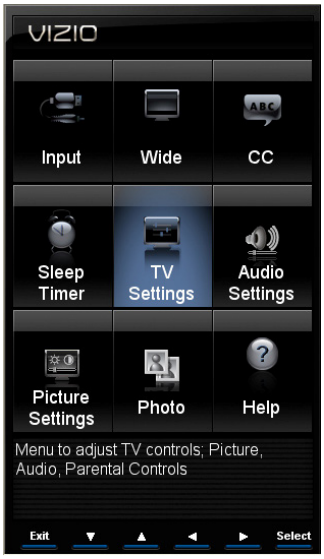
Chapter 8 Adjusting Your HDTV Settings

Using the HDTV Settings App

The remote control or the buttons on the front of the TV can control all the function settings. The *HDTV Settings App* allows you to adjust contrast, brightness and other settings. The TV will save changes made to the settings, even if the TV is turned off.

The *HDTV Settings App* consists of several menu options. The main menu options may vary depending on your selected input source.

Note: Some of the main menu options may have additional submenus, for example, the TV Rating submenu for Parental Controls.



1. Press the **OK** button on the remote control. The *HDTV Settings App* opens.
2. Use the navigation keys around the **OK** button to select one of the menu options.
3. Press **OK** to select the option or feature you want to adjust.
4. After the menu option is displayed, press Up or Down Navigation buttons to select one of the items to adjust.
5. Press **OK** to select, and then press Up, Down. Left, or Right Navigation buttons to adjust the selection.
6. Press **LAST** once to return to the previous screen or repeatedly to exit the On Screen Menu completely when finished making adjustments.
7. Press **EXIT** to close the *HDTV Settings App*.

Input Menu

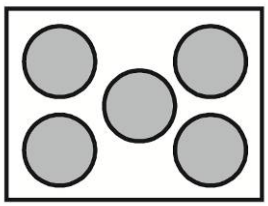
Select the Input Source for your HDTV. Choose from **TV, AV, Comp, HDMI-1, HDMI-2, VGA,** and **Photos**.

Wide

Select how the picture displays on the screen. As you select an option, you will see the screen adjusting to the different sizes. The options vary depending on the selected input and the TV program:

Normal Mode

The original 4:3 aspect ratio (1.33:1 source) is preserved, so black bars are added to the left and right of the display image. Standard TV broadcasts are displayed with a 4:3 Aspect Ratio. Movies in 4:3 Aspect Ratio may be referred to as pan-and-scan or full frame. These movies were originally filmed in 16:9 (widescreen), and then modified to fit a traditional TV screen (4:3).

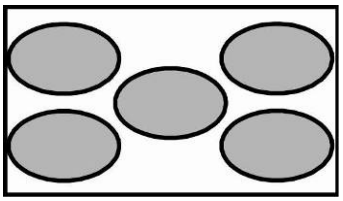


Full

Full mode allows you to view the entire picture. Recommended for HDMI and RGB / Computer viewing so you can see the complete picture without the image overstretching beyond the viewing area. If you experience “noise” along the border switch to Zoom 1. For 720p, 1080i, 1080p only.

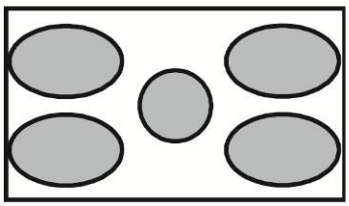
Stretch Mode

When watching a widescreen program (1.78:1 source) with black bars on the sides, the display image will stretch to fill the TV screen. People will appear wider than they really are. If you are watching a widescreen (1.85:1 or 2.35:1 source) program or movie, there will still be black bars at the top and bottom. This mode is available only when watching a widescreen program.



Panoramic Mode

When watching a standard broadcast or full frame movie in this mode, the 4:3 Aspect Ratio (1.33:1 source) display image is stretched horizontally on the left and right sides to fill the TV screen. The center of the image is not stretched.



CC (Closed Caption)

To select the options in the CC sub-menu, press the **OK** button or the right navigation button. A new menu will be displayed showing the following CC settings:

Analog Closed Caption

The CC feature is available when watching regular analog (NTSC) TV. Select from CC1, CC2, CC3, CC4, or Off. Closed Caption for regular TV is usually CC1 or CC2.

Digital Closed Caption

The CC feature is available when watching digital TV. Select from CC1, CC2, CC3, CC4, or CS1, CS2, CS3, CS4, CS5, CS6, or Off.

Digital CC Style

The Digital CC Style feature is available when watching digital TV.

Select either As Broadcaster or Custom. If Custom is selected then you can customize the way Closed Caption is displayed. The options available are:

- **Caption Style** (custom or as broadcast).

Note: the following options will only be available if Caption Style is set to Custom.

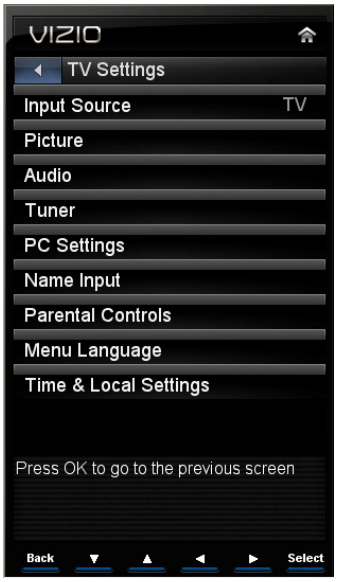
- **Text Size** (letter size)
- **Color** (text color)
- **Opacity** (color of the background where Closed Caption is displayed)
- **Background Color** (color of the background where Closed Caption is displayed)
- **Background Opacity** (sets the transparency of the background)
- **Window Color** (color of the area where characters are displayed)
- **Window Opacity** (transparency of the area where characters are displayed)

Sleep Timer Menu

Select the timer to turn off the TV in 30, 60, 90, 120 or 180 minutes.

TV Settings Menu

When you first turned on your HDTV you set up your TV for DTV / TV channels using the Initial Setup screens. If you did not do this or if your setup has changed, you can do this from the TV menu.



Input Source

Select the Input Source for your HDTV. Choose from **TV, AV, Comp, HDMI-1, HDMI-2, VGA,** and **Photos**.

Picture

The **Picture** menu allows you to adjust the same settings as the *Picture Settings* menu option on the main menu. See *Picture Settings Menu* below for a detailed explanation of each setting.

Audio

The **Audio** menu allows you to adjust the same settings as the *Audio Settings* menu option on the main menu. See *Audio Settings Menu* below for a detailed explanation of each setting.

Tuner

Note: The tuner option can only be selected when your HDTV is in TV input mode.

Tuner Mode

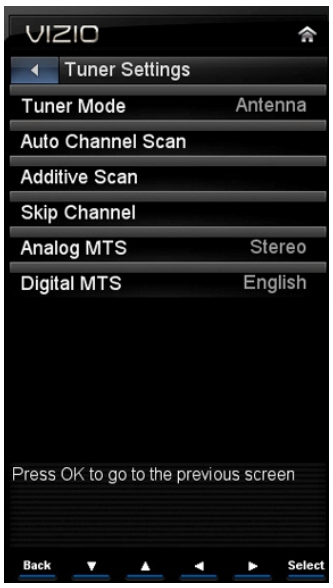
Select Cable or Antenna depending upon which you have attached to the DTV / TV Input.

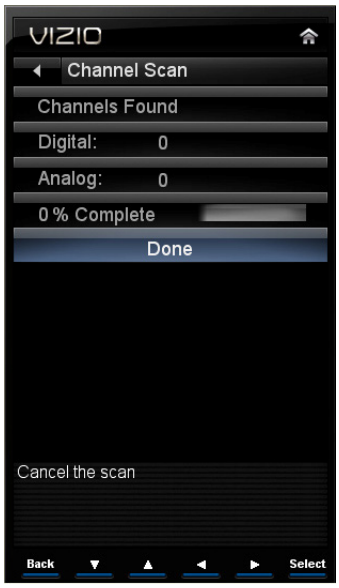
Auto Channel Search

Automatically search for TV channels that are available in your area. Be sure to first select the correct tuner mode above. The TV will search for analog and digital channels. When the search is done, press **OK** to begin watching your programs.

Additive Scan

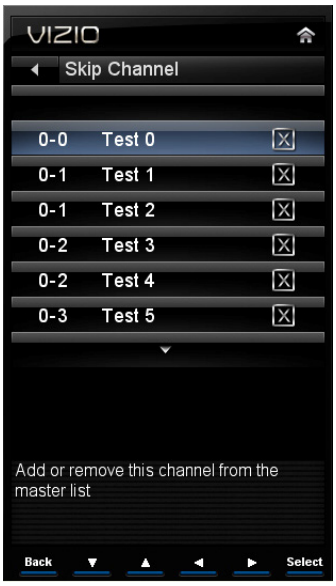
Only new Channels are added to the channel lineup when scanning for channels.





Skip Channel

After the TV has stored all of the available digital channels in memory you will find that some channels are too weak to watch comfortably or they may be channels you do not want to see. Press **OK** to select the channel to be skipped when using the CH▲ or CH▼ buttons. An X will appear in channels you have selected to skip. You will still be able to select this channel using the number buttons on the remote control.



Analog MTS

This feature allows you to select the different languages the broadcaster is transmitting the audio with the program you are watching. This signal is usually Spanish. Choose from **Mono, Stereo,** or **SAP**.

Digital MTS

This feature allows you to select the different languages the broadcaster is transmitting the audio with the program you are watching. This signal is usually Spanish. Choose from **English, French,** or **Spanish**.

PC Settings

Select if you are connecting to your PC (computer). This option can only be selected when you are in the VGA input mode.

Auto Adjust

The TV will automatically position and tune the display for optimum performance.

Horiz. Position

Adjust the horizontal (left/right) position of the image.

Vertical Position

Adjust the vertical (up/down) position of the image.

Fine Tune

Fine tunes the image for crisp content over the entire display area.

Name Input

This feature makes it easier for you to recognize the devices you have connected to your HDTV when you press **INPUT**. For example, if you have a Blu-Ray DVD player connected to the HDMI-1 input, you can have the input label read *HDMI-1 BluRay* instead of just *HDMI-1*. You can select from 10 preset labels or you can make your own custom label that is up to 24 characters long and contains letters, numbers, and/or symbols.

To use one of the 10 preset labels:

1. Select *Input Source,* and then press **OK** to show the list of inputs.
2. Press down navigation button to select the input label you want to change, and then press **OK.**
3. Press down navigation button to select *Input Labels*, and then press **OK** to show the list of 10 preset labels.
4. Press down navigation button to select the new input label name, and then press **OK.**

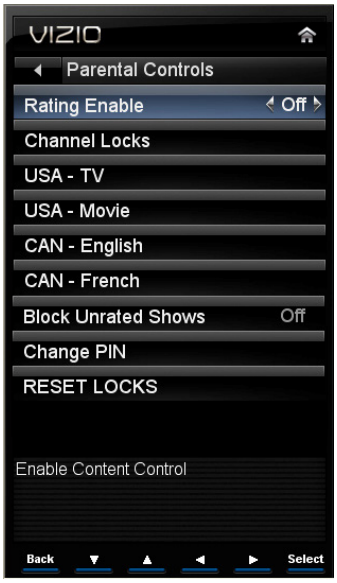
To make your own custom label:

1. Select *Input Source*, and then press **OK** to show the list of inputs.
2. Press down navigation button to select the input label you want to change, and then press **OK**.
3. Press down navigation button to select *Custom Label* and then press **OK**.
4. Use the on-screen keyboard and begin typing in a new label name.
5. Press down navigation button to select **OK** when you have finished changing the names of the input labels.

Now when you press **INPUT**, you will see the new name you assigned.

Parental Controls

If you want to restrict certain channel and program viewing, you can do this by turning on the Parental Control. Selected programs, movies and channels can then be made available only after an authorized password has been entered and accepted by the TV.



To select the options in the Parental sub-menu, press **OK** and then create and/or enter a password.

Note: The Parental menu does not appear when the input mode is set to HDMI or VGA.

A new menu will be displayed showing the following Parental settings:

Rating Enable

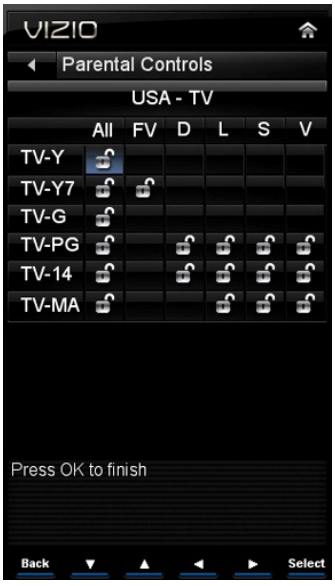
Select from **ON** or **OFF**. If set to **OFF**, you will not be able to set the US TV, US Movie, Canadian English, or Canadian French Ratings.

Channel Locks

Block individual channels from being displayed.

USA-TV

Note: When Rating Enable is **OFF**, the USA-TV Rating adjustments are not available.



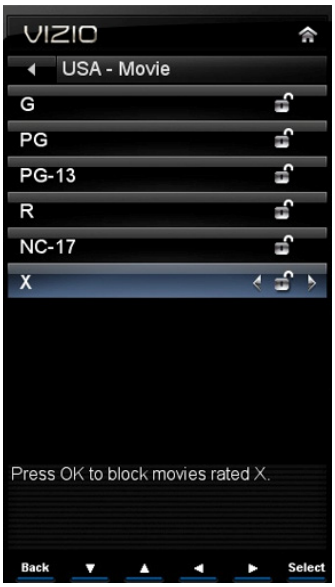
Press **OK** to block (locked) or allow (unlocked) channels by the following US TV ratings:

TV-Y – All children
TV-Y7 – Older children
TV-G – General audience
TV-PG – Guidance suggested
TV-14 – Strongly cautioned
TV-MA – Mature audience

You can also customize the TV ratings for the following content:

A – All sub-ratings
FV – Fantasy violence
D – Sexual dialog
L – Adult language
S – Sexual situations
V - Violence

USA-Movie



Note: When Rating Enable is **OFF**, USA-Movie Rating adjustments are not available.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following US Movie ratings:

G – General audience

PG – Parental guidance suggested

PG-13 – Recommended for children 13 years of age or older

R – Mature audience

NC-17 – No one under 17 years of age

X – No one under 17 years of age

CAN-English

Note: When Rating Enable is **OFF**, Canadian English Rating adjustments are not available.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following Canadian English ratings:

C – Children

C8+ – Children 8 years or older

G – General Programming, suitable for all audiences

PG – Parental guidance

14+ – Viewers 14 years or older

18+ – Adult programming

CAN-French

Note: When Rating Enable is **OFF**, Canadian French Rating adjustments are not available.

Press the **OK** button to block (locked) or allow (unlocked) channels by the following Canadian French ratings:

G – General audience

8 ans+ – General – not recommended for young children

13 ans+ – Not suitable for children under 13 years of age

16 ans+ – Not suitable for under 16 years of age

18 ans+ – Adults only

Block Unrated TV

Block programming that does not have a rating.

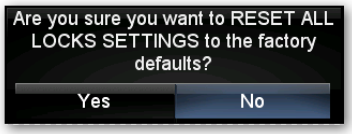
Change the PIN (Password)

Enter a new, 4-digit password using the number buttons on the remote control. Enter it a second time to confirm you entered it correctly.

Note: Make sure you write down and store the new password in a secure place. The *Reset Locks* feature does NOT reset the password.

RESET LOCKS

Return all Parental Control lock settings to factory default. A screen will come up to confirm your selection or to cancel it. Press Left or Right Navigation buttons to make the selection, and then press **OK** to accept it.



Menu Languages

Select to change the language of the menu. The default is **English**. You can also select **French** or **Spanish**.

Time & Local Settings

Time Zone

Setting the correct Time Zone for your area will ensure that the correct time is shown after pressing the **INFO** button on the remote control.

Daylight Saving

Setting the daylight saving time for your area will ensure that the correct time is shown after pressing the **INFO** button on the remote control.

Today's Date

Manually set the date when *Auto Update* is set to **OFF**.

Current Time

Manually set the time when *Auto Update* is set to **OFF**.

Auto Update

When set to **ON**, the date and time are automatically set by the TV system. When set to **OFF**, you can manually adjust *Today's Date* and *Current Time*.

Note: Press OK to select options.

Audio Settings Menu

Audio Mode

Choose from **Flat, Rock, Pop, Classic** or **Jazz**.

Note: The Audio Mode adjustment will only be available when SRS TruSurround HD is set to **Off**.

Balance

Adjust the sound to the left or the right.

TV Speakers

Turn the internal speakers **On** or **Off**. You may want to turn the internal speakers off when listening to the audio through your Home Theater System.

Optical Audio Out

This option allows selection of the type of processing for the SPDIF (Optical connector) when used with a Home Theater system. Select to choose from **Auto** or **Force PCM**. **Auto** passes Dolby Digital (if broadcast) or PCM. If your Home Theatre supports only PCM, use **Force PCM** and the TV will pass all Optical Output in the PCM format.

Advanced Audio

SRS TruSurround HD™

This option sets the SRS TruSurround HD surround sound process. Choose from **On** or **Off**.

Note: When SRS TruSurround HD is ON, Equalizer adjustments are not available.

SRS TruSurround HD™ creates an immersive, feature-rich surround sound experience from two speakers, complete with rich bass, high frequency detail and clear dialog.

SRS TruVolume

When the programming switches to a commercial or when changing from channel to channel, volume fluctuations occur. When turned ON, SRS TruVolume™ provides the listener with a comfortable and consistent volume level. VIZIO recommends turning TruVolume off when listening to music content.

Equalizer

Choose **Flat, Rock, Pop, Classical,** or **Jazz.** You can also adjust **Bass** and **Treble**.

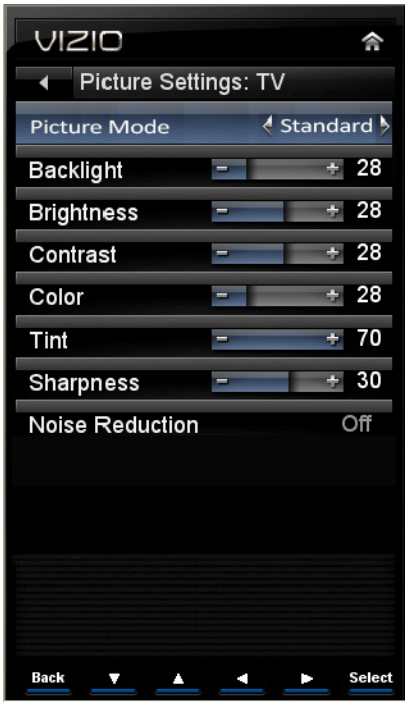
Note: The Equalizer adjustment will only be available when SRS TruSurround HD is set to **Off**.

Reset Audio Mode

Return all Audio settings to factory default. A screen will come up to confirm your selection or to cancel it. Press Left or Right Navigation buttons to make the selection, and then press **OK** to accept it.

Note: Only settings under the Audio menu will be reset.

Picture Settings Menu



Picture Mode

Choose from **Standard, Movie, Game, Vivid,** or **Custom**. Each input (i.e. HDMI, COMP, etc) remembers the custom setting you created. Select **Custom** to manually adjust *Backlight, Brightness, Contrast, Color, Tint, Sharpness*, and to access the *More* menu where further adjustments can be made.

Backlight

Adjust the LED brightness to affect the overall brilliance of the picture not the Brightness (black level) or Contrast (white level) of the picture.

Note: Backlight is only available when *Picture Mode* is set to **Custom**.

Brightness

Adjust black levels in the picture. If the brightness is too low you will not be able to see the detail in darker parts of the picture and if the brightness is too high the picture will look washed out.

Note: Brightness is only available when *Picture Mode* is set to **Custom**.

Contrast

Adjust the white levels in the picture. If the contrast is too low the picture will look washed out and if the contrast is too high you will not be able to see any detail in the bright parts of a picture.

Note: Contrast is only available when *Picture Mode* is set to **Custom**.

Color

Adjust the amount of color in the picture.

Note: Color is only available when *Picture Mode* is set to **Custom**.

Tint

Adjust the hue of the picture. The easiest way to set tint is to look at flesh tones and adjust for a realistic appearance. In most cases, the default middle position is correct. If people's faces look too orange try reducing the level of color first.

Note: Tint is only available when *Picture Mode* is set to **Custom**.

Sharpness

Adjust the sharpness of the edges of elements in the picture. It does not produce detail that otherwise does not exist. This adjustment is helpful when viewing Standard Definition sources.

Note: Sharpness is only available when *Picture Mode* is set to **Custom**.

Noise Reduction

This feature diminishes picture artifacts caused by the digitizing of image motion content that may be present in the picture. Choose from **Off, Low, Medium,** or **High**.

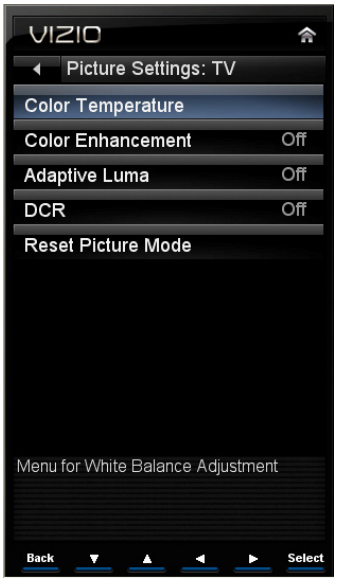
More

Select **More** to adjust advanced options for fine tuning the picture.

Note: The *More* menu is only available when *Picture Mode* is set to **Custom**.

Color Temperature

Color Temperature is the “warmness” or “coolness” of the white areas of the picture. Choose from **Custom**, **Cool**, **Normal**, or **PC**. **Normal** is the setting for television broadcasting. **Custom** allows you to set a preset calibrated for a white point to suit individual preferences. **Cool** produces a blue-hued image. **PC** sets the white point at the established setting for a computer display (9300K). Each preset may also be adjusted for a customized setting.



Color Enhancement

This feature increases the picture reproduction performance of the picture by reducing oversaturation of certain colors and improving flesh tones. Choose from **Off** or **On**.

Adaptive Luma

Large areas of brightness in the picture will result in a higher Average Picture Level (APL) and the overall picture will look too light. This feature will lower the APL to counteract this effect. Choose from **Off** or **On**.

DCR

Set this feature for Dynamic Contrast Ratio to improve the black level performance and increase contrast ratio. Choose from **Off** or **On**.

Reset Picture Mode

Return all Picture settings to factory default. A screen will come up to confirm your selection or to cancel it. Press either Left or Right Navigation buttons to make the selection, and then press **OK** to accept it.

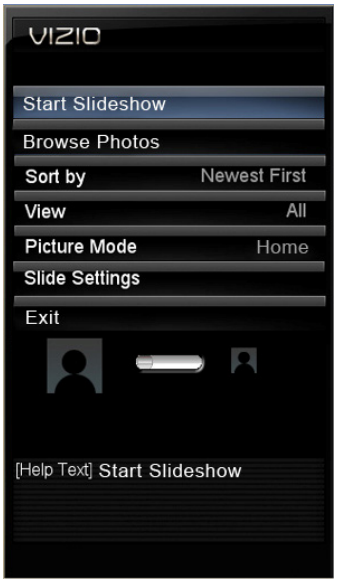
Note: Only settings under the Picture Settings menu will be reset.

Photo Menu

Start Slideshow

Press **OK** to begin slideshow and play the selected group of photos.

- Press Left or Right Navigation buttons to manually go to the next or previous picture.
- Press **OK** to open the *Modify Photo* menu. There you can zoom in and out, pan the photo left/right/up/down, rotate the photo, see information about the photo, or remove it from the slideshow. When a photo is removed from the slideshow the “No” symbol appears on the picture.
- Press ■ to stop the slideshow. The *Photo menu* opens.



Browse Photos

Browse photos in a selected group or folder.

- Press Up or Down Navigation buttons to highlight an option and then press **OK** to select it. In some cases, a sub-menu will be displayed.
- Select a picture and then press **OK**. You can make the photo go full screen, rotate the photo, see information about the photo, or remove it from the slideshow. When a photo is removed from the slideshow the “No” symbol appears on the picture.
- Press **LAST** to go back to a previous screen.

Sort By

Choose how you want your photos organized. Choose from **Original, Title A-Z, Title Z-A, Oldest First,** and **Newest First**.

View

View individual folders and their contents or *ALL*. If you select **Folders**, scroll back up the list to *Browse Photos* to browse and select a specific folder to view the contents of the folders.

Picture Mode

Choose from **Home, Movie, Game,** or **Custom** to vary the screen color/lighting when viewing your photos.

Slide Settings

Choose **Repeat** (On or Off), **Shuffle** (On or Off), **Full Screen** (On or Off), or **Speed** (Slow or Fast)

Exit

Exit the Photo menu.

Slide Size

Set the size of the thumbnails. Press Left or Right Navigation buttons to choose either large or small.

Help Menu

System Info

Display information about your TV, such as signal format and current software version.

Reset All Settings

Return all Picture and Audio settings to factory default. A screen will come up to confirm your selection or to cancel it. Press Left or Right Navigation buttons to make the selection, and then press **OK** to accept it.

Setup Wizard

Use this function to return to the Initial Setup menu. Refer to the *Getting Started* section for more information.

Note: Previously scanned channels will be removed.

Chapter 9 Maintenance and Troubleshooting

Cleaning the TV and Remote Control

1. Remove the power adapter cable from the TV.
2. Use a soft cloth moistened with diluted neutral cleaner to clean the TV and remote control. VIZIO recommends using an HDTV cleaning solution which can be purchased at any major retailer.
3. Wring liquid out of the cloth before cleaning to prevent water from penetrating into the housing.
4. Wipe the TV and remote control with a dry cloth after cleaning.

Important:

- Do not use volatile solvent (such as toluene, rosin and alcohol). Such chemicals may damage the housing, screen glass, and remote control, and cause labeling to peel.
- The screen glass is very fragile. Do not scrape it with any sharp object.
- Do not press or tap the screen to avoid cracking.

Troubleshooting Guide

If the TV fails or the performance changes dramatically, check the display in accordance with the following instructions. Remember to check the peripherals to pinpoint the source of the failure. If the display still fails to perform as expected, contact the VIZIO for assistance by calling 1-877-MYVIZIO (698-4946) or e-mail us at techsupport@VIZIO.com.

General TV Problems	Solution
Receive the error message "No Signal."	• Press the INPUT button on the remote control to select a different input source. • If you are using cable connected directly to the TV or an antenna, scan for channels from the Tuner menu in the on-screen menu.
No power.	• Make sure the power button is ON. • Make sure power adapter is securely connected to the AC socket. • Plug another electrical device to the power outlet to verify that the outlet is working.
No sound.	• Press Volume + (Up) on the remote control. • Press MUTE on the remote control to make sure that MUTE is not ON. • Check your audio settings. The audio may be set to SAP, or the speakers are set to off. • Make sure that headphones are not connected. • Check the audio connections of external devices that may be connected to your HDTV. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
If the screen is black.	• Make sure the power button is ON. • Press the INPUT button on the remote control to select a different input source. • Check the connections of external devices that may be connected to your HDTV.
Power is ON but there is no image on the screen.	• Make sure all cables attached to your HDTV are connected to the correct output on the external device. • Adjust brightness, contrast or backlight. • Press the INPUT button on the remote control to select a different input source.
Wrong or abnormal colors appear.	• Check Color and Tint settings in Picture Menu. • Reset Picture settings. • Check the video cables to make sure they are securely connected. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
Control buttons do not work.	• Press only one button at a time.
Remote control does not work.	• Point the remote control directly at the remote sensor on your TV. • Remove any obstacles between the remote control and the remote sensor. • Replace dead batteries with new ones. • Make sure you have selected TV mode on the remote control.
There appear to be image	• If you are using an antenna, the signal strength of the channel may be

General TV Problems	Solution
quality issues.	low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window. • For best image quality, view HD wide-screen programs where possible. • If HD content is not available view “Standard Definition” from a digital source. • Standard, analog TV will always be noticeably inferior to HD because your digital flat panel TV has video that is many times better than old TV so you will see interference and deficiencies you did not know you had.
You cannot see a picture.	• Make sure the power button is ON. • Make sure power adapter is securely connected to the AC socket. • Press the INPUT button on the remote control to select a different input source. • Check the connections of external devices that may be connected to your HDTV. • If your HDTV is connected to a computer, press any button on your keyboard to “wake” your computer. • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
You see a distorted picture or hear unusual sound.	• You may be getting interference from electrical appliances, cars, motorcycles, or fluorescent lights. If you have not mounted it on the wall, try moving your HDTV to another location to see if this is the cause of the problem.
The picture has abnormal patterns.	• Check the connections of external devices that may be connected to your HDTV. • Make sure the specifications of external devices meet the specifications of your HDTV (i.e. resolution). • If you are using an antenna, the signal strength of the channel may be low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
The display image does not cover the entire screen.	• If you are in RGB mode (Computer), make sure that H-Size and V-Position in the on-screen menu are set correctly. • If you are using TV, AV1, AV2 or Component with 480i input, press WIDE button on the remote control to scroll through various screen modes.
You can see a picture but you cannot hear sound.	• Press Volume + (Up) on the remote control. • Press MUTE on the remote control to make sure that MUTE is not ON. • Check your audio settings. The audio may be set to SAP, or the speakers are set to off. • Make sure that headphones are not connected. • Check the audio connections of external devices that may be connected to your HDTV.
The TV has pixels (dots) that are always dark or colored.	• Your HDTV is manufactured using an extremely high level of precision technology, however, sometimes some pixels of your HDTV may not display. Pixel defects within industry specifications are inherent to this type of product and do not constitute a defective product.
You see “noise” or “trash” on the screen.	• When your HDTV’s digital capabilities exceed a digital broadcast signal, the signal is up-converted (increased) to match your TV’s display capabilities. Up-converting can cause noise or trash. • If you are using an antenna, the signal strength of the channel may be

General TV Problems	Solution
	low. Make sure your antenna is connected securely to the TV and move the antenna around the room or close to a window.
You switch to a different input and the volume changes.	• The TV remembers the volume level from the last time you adjusted it. If the sound level is higher or lower from another source, then the volume will change.
You switch to a different input and the screen size changes.	• The TV remembers the viewing mode from the last time you used a particular input (AV-1, AV-2, Component, HDMI and TV).
Tips for High-Definition Users.	• Your HDTV is an ideal platform for viewing High Definition Content. • Best image quality will be achieved by HDMI. The next best is Component, followed by Composite. • Due to variances in broadcast practices, it is possible some image distortions can occur.
Tips for Letterbox Content Users.	• Some Letterboxed (or "Widescreen") versions of DVD movies are formatted for standard 4:3 Televisions. Your HDTV has the ability to expand this content so the entire screen is filled at the expense of image accuracy.

Media Viewer Problems	Solution
USB device is not recognized.	• Make sure the device is correctly inserted. • Make sure the device is FAT or FAT32 • Make sure it contains the supported files. • Make sure files are .jpg or .jpeg only.
Image is interrupted or distorted.	• Make sure the device is correctly inserted. • Make sure that the file complies with the supported format, bit rate and/or profile. Also check the file for damage. • Some files that comply with the supported format may not play back or display properly.
Slideshow doesn't start.	• Make sure the viewer isn't in pause, rotation, or zoom mode.

Telephone & Technical Support

Products are often returned due to a technical problem rather than a defective product that may result in unnecessary shipping charges billed to you. Our trained support personnel can often resolve the problem over the phone. For more information on warranty service or repair, after the warranty period, contact our Support Department at the number below.

Customer support and quality service are integral parts of VIZIO's commitment to service excellence.

For technical assistance contact our VIZIO Technical Support Department via email or phone.

Email: **techsupport@VIZIO.com**

(877) 698-4946 Fax: (949) 585-9563

Hours of operation: Monday - Friday: 6 am to 9 pm

Saturday – Sunday: 8 am to 4 pm

Have your VIZIO model number, serial number, and date of purchase available before you call.

VIZIO

Address:

39 Tesla

Irvine, CA 92618, USA

Telephone: (888) 849-4623 (949) 428-2525 Fax: (949) 585-9514

Web: **www.VIZIO.com**

Compliance

Caution: Always use a AC/DC power adapter that is properly grounded. Use the AC cords listed below for each area.

USA: UL **Canada**: CSA
Germany: VDE **UK**: BASE/BS
Japan: Electric Appliance Control Act

FCC Class B Radio Interference Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio/TV technician for help.

Notice:

1. The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
2. Shielded interface cables and AC power adapter, if any, must be used in order to comply with the emission limits.
3. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modification to this equipment. It is the responsibilities of the user to correct such interference.

Chapter 10 Specifications

Product specifications may change without notice or obligation.

E190MV	Specifications	
Panel	19” (18.5” Diagonal), 16:9 Aspect Ratio	
Resolution	1366 x 768 pixels	
Pixel (Dot) Pitch	0.3mm(H) x 0.3mm(V)	
Display Compatibility	HDTV (720p)	
Colors	16.7 Million	
Brightness cd/m^2 (typical)	250 nits	
Dynamic Contrast Ratio	20,000:1	
Response Time	5ms (typical)	
Viewing Angle	170° x 160° (horizontal/vertical)	
Inputs	1x RF 1x Composite Video and stereo audio 1x S-Video	1x Component and stereo audio 2x HDMI 1x RGB 1x USB Port (photo/service)
Outputs	1x S/PDIF Optical Digital Audio, 1x headphone	
Features	Noise Reduction, CC, V-Chip 2.0. Supports 1080i (HDTV), 720P (HDTV), 480P (EDTV) and 480i (SDTV) video signals. HDMI V.1.3. USB supports Digital images (JPEG) photo files. Supports 640x480, 800x600, 1024x768, 1360x768 via RGB or 1366x768 via HDMI. 3-D comb filter, 3:2 or 2:2 reverse pull-down, ATSC with 8VSB & QAM demodulation, ATSC with MPEG-2 decoding, NTSC video decoding via Video (AV, S-Video, or Component). Progressive Scan Video via HDMI™, Component or RGB. Built in speakers x 2. Dolby Digital Decoding, SRS TruSurround HD and SRS TruVolume sound enhancement.	
Speakers	2xBuilt-in, 5W Speakers	
Panel Life	30,000 hours to half the original brightness	
Power		
Input	DC input connector from AC/DC adapter	
Voltage Range	100~240Vac at 50/60Hz	
Power Consumption	37W (AVG), <1W standby	
Environmental Conditions		
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~12,000 ft	
Non-Operating	Temperature: -20°C~60°C, Relative Humidity: 5~90%, Altitude: 0~40,000 ft	
Dimensions	18.3"W x 13.2"H x 7.3"D with stand; 18.3"W x 12.3"H x 2.4"D w/o stand	
Net Weight	4.7 lbs without stand, 5.9 lbs with stand	
Gross Weight	8.10 lbs	
Certifications	Energy Star 4.2, CSA, CSA-US, FCC Class B	
Compliances	EIA/CEA-766-A	

E220MV	Specifications	
Panel	22” (21.5” Diagonal), 16:9 Aspect Ratio	
Resolution	1920 x 1080 pixels	
Pixel (Dot) Pitch	0.248mm(H) x 0.248mm(V)	
Display Compatibility	FHDTV (1080p)	
Colors	16.7 Million	
Brightness cd/m^2 (typical)	300 nits	
Dynamic Contrast Ratio	20,000:1	
Response Time	5ms (typical)	
Viewing Angle	170° x 160° (horizontal/vertical)	
Inputs	1x RF 1x Composite Video and stereo audio 1x S-Video	1x Component and stereo audio 2x HDMI 1x RGB 1x USB Port (photo/service)
Outputs	1x S/PDIF Optical Digital Audio, 1x headphone	
Features	Full HD, Noise Reduction, CC, V-Chip 2.0. Supports 1080P (Full HDTV), 1080i (HDTV), 720P (HDTV), 480P (EDTV) and 480i (SDTV) video signals. 1080P FHDTV, HDMI V.1.3. USB supports Digital images (JPEG) photo files. Supports 640x480, 800x600, 1024x768, 1920x1080 via RGB or 1920x1080 via HDMI. 3-D comb filter, 3:2 or 2:2 reverse pull-down, ATSC with 8VSB & QAM demodulation, ATSC with MPEG-2 decoding, NTSC video decoding via Video (AV, S-Video, or Component). Progressive Scan Video via HDMI™**, Component or RGB. Built in speakers x 2. Dolby Digital Decoding, SRS TruSurround HD and SRS TruVolume sound enhancement.	
Speakers	2xBuilt-in, 5W Speakers	
Panel Life	30,000 hours to half the original brightness	
Power		
Input	DC input connector from AC/DC adapter	
Voltage Range	100~240Vac at 50/60Hz	
Power Consumption	41W (AVG), <1W standby	
Environmental Conditions		
Operating	Temperature: 5°C~35°C, Relative Humidity: 20~80%, Altitude: 0~12,000 ft	
Non-Operating	Temperature: -20°C~60°C, Relative Humidity: 5~90%, Altitude: 0~40,000 ft	
Dimensions	21.0"W x 14.7"H x 7.3"D with stand; 21.0"W x 13.7"H x 2.4"D without stand	
Net Weight	6.7 lbs without stand, 7.7 lbs with stand	
Gross Weight	9.86 lbs	
Certifications	Energy Star 4.2, CSA, CSA-US, FCC Class B	
Compliances	EIA/CEA-766-A	

Preset PC Resolutions

E190MV Preset PC Resolutions

If connecting to a PC through the RGB PC input, set the TV timing mode to VESA 1366x768 at 60Hz for better picture quality (refer to the graphic card's user guide for questions on how to set this timing mode). See the table below for the factory preset resolutions.

Preset	Pixel Format	Horz Freq (kHz)	Horz Polarity	Vert Freq (Hz)	Vert Polarity	Pixel Clk (MHz)
1	**640 x 480@60Hz**	31.47	-	59.94	-	25.175
2	**640 x 480@75Hz**	37.50	-	75.00	-	31.50
3	**800 x 600@60Hz**	37.88	+	60.32	+	40.00
4	**800 x 600@72Hz**	48.08	+	72.19	+	50.00
5	**800 x 600@75Hz**	46.88	+	75.00	+	49.50
6	**1024 x 768@60Hz**	48.36	-	60.00	-	65.00
7	**1024 x 768@70Hz**	56.48	-	70.07	-	75.00
8	**1024 x 768@75Hz**	60.02	+	75.03	+	78.75
9	**1366 x 768@60Hz**	47.71	+	59.79	+	85.50

E220MV Preset PC Resolutions

If connecting to a PC through the RGB PC input, set the TV timing mode to VESA 1920x1080 at 60Hz for better picture quality (refer to the graphic card's user guide for questions on how to set this timing mode). See the table below for the factory preset resolutions.

Preset	Pixel Format	Horz Freq (kHz)	Horz Polarity	Vert Freq (Hz)	Vert Polarity	Pixel Clk (MHz)
1	640 x 480@60Hz	31.47	-	59.94	-	25.175
2	640 x 480@75Hz	37.50	-	75.00	-	31.50
3	720 x 400@70Hz	31.46	-	70.08	+	28.32
4	800 x 600@60Hz	37.88	+	60.32	+	40.00
5	800 x 600@72Hz	48.08	+	72.19	+	50.00
6	800 x 600@75Hz	46.88	+	75.00	+	49.50
7	1024 x 768@60Hz	48.36	-	60.00	-	65.00
8	1024 x 768@70Hz	56.48	-	70.07	-	75.00
9	1024 x 768@75Hz	60.02	+	75.03	+	78.75
10	1360 x 768@60Hz	47.71	+	60.02	+	85.50
11	1920 x 1080@60Hz	66.58	+	59.94	+	138.50

ONE-YEAR LIMITED WARRANTY ON PARTS AND LABOR

Covers units purchased as new in United States and Puerto Rico Only

VIZIO provides a warranty to the original purchaser of its products against defects in materials and workmanship for a period of one year of non-commercial usage and ninety (90) days of commercial use. If a VIZIO product is defective within the warranty period, VIZIO will either repair or replace the unit at its sole option and discretion.

To obtain warranty service, contact VIZIO Technical Support via email: TechSupport@VIZIO.com or via phone at 877 MY VIZIO (877.698.4946) from 6:00AM to 9:00PM Monday through Friday and 8:00AM to 4:00PM Saturday and Sunday, Pacific Time, or visit www.VIZIO.com. Proof of purchase in the form of a purchase receipt or copy thereof is required.

Parts and Labor

There will be no charge for parts or labor during the warranty period. Replacement parts and units may be new or recertified at VIZIO's option and sole discretion. Replacement parts and units are warranted for the remaining portion of the original warranty or for ninety (90) days from warranty service or replacement, whichever is later.

Types of Service

Units 30" or larger will usually be serviced in-home. In-home service requires complete and easy access to the unit and does not include de-installation or re-installation of the product. However, in some cases, it may be necessary to send the unit to a VIZIO service center. VIZIO will cover the transportation charges to and from the same customer location.

Units less than 30" must be sent to a VIZIO service center. VIZIO is not responsible for transportation costs to the service center, but VIZIO will cover return shipping to the customer. PRE-AUTHORIZATION IS REQUIRED BEFORE SENDING ANY UNIT IN FOR SERVICE.

Any returns to VIZIO's service centers must utilize either the original carton box and shipping material or a replacement box and material provided by VIZIO. VIZIO technical support will provide instructions for packing and shipping the unit to the VIZIO service center.

Limitations and Exclusions

VIZIO's one-year limited warranty only covers defects in materials and workmanship. Items not covered include but are not limited to cosmetic damage, normal wear and tear, misuse, signal issues, power surges, and damages from shipping, acts of God, any sort of customer misuse, installation, customer modifications, adjustments, and set-up issues. Units with unreadable or removed serial numbers, "image burn-in", and routine maintenance are not covered. This warranty does not cover products sold "AS IS", "FACTORY RECERTIFIED", or by a non-authorized reseller.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE LISTED OR DESCRIBED ABOVE. ANY IMPLIED WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE PERIOD OF TIME SET FORTH ABOVE. VIZIO'S TOTAL LIABILITY FOR ANY AND ALL LOSSES AND DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER SHALL IN NO EVENT EXCEED THE PURCHASE PRICE OF THE DISPLAY. VIZIO SHALL NOT BE RESPONSIBLE FOR LOSS OF USE, COMMERCIAL LOSS, LOST REVENUE OR LOST PROFITS, OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS OR EXCLUSIONS MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS, WHICH VARY FROM STATE TO STATE. THIS WARRANTY IS SUBJECT TO CHANGE WITHOUT NOTICE. CHECK www.VIZIO.com FOR THE MOST CURRENT VERSION.

Personal Data

If your VIZIO product is capable of storing personal data and other information, **ALL CONTENTS AND INFORMATION WILL BE DELETED IN THE COURSE OF SOME IN-HOME AND ALL SHIP-IN WARANTY SERVICE.** If this occurs, your product will be restored to you configured **as originally purchased**. **You will be responsible for restoring all applicable data and passwords.** Recovery and reinstallation of user data is not covered under this Limited Warranty. **In order to protect your personal information, VIZIO recommends that you always clear all personal information from the unit before it is serviced, regardless of the servicer.**

ZERO BRIGHT PIXEL DEFECT GUARANTEE

This policy covers "zero bright pixel" defects for the duration of the limited "ONE YEAR WARRANTY" on select new product purchases. To determine if this guarantee applies to your product, refer to the "DETAILS" tab of the model's product information page (www.VIZIO.com) or look for the "zero bright pixel" guarantee on the box.

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